Cancer Genetics and Cytogenetics

Volume 58, Number 1, January 1992

Editorial The New Format of Cancer Genetics and Cytogenetics A.A. Sandberg	1
Lead Article Giant Cell Tumor of Bone: Chromosomal Analysis of 48 Specimens and Review of the Literature J.A. Bridge, J.R. Neff, and B.J. Mouron	2
Original Articles Human Benign Chondroblastoma with a Pseudodiploid Stemline Characterized by a Complex and Balanced Translocation J. Mark, B. Wedell, R. Dahlenfors, C. Grepp, and P. Burian	14
Cytogenetic Findings in Secondary Acute Nonlymphocytic Leukemia P. Carbone, A. Santoro, M.C. Giglio, S. Mirto, G. Granata, and G. Barbata	18
Enhanced Expression of 1p32 and 1p22 Fragile Sites in Lymphocytes in Cutaneous Malignant Melanomas O.I. Sokova, O.P. Kirichenko, A.F. Mukeria, L.V. Demidov, A.N. Chebotarev, and B.P. Kopnin	24
Inversion of Chromosome 16 with the Philadelphia Chromosome in Acute Myelomonocytic Leukemia with Eosinophilia: Report of Two Cases L.M. Secker-Walker, G.J. Morgan, T. Min, G.J. Swansbury, J. Craig, T. Yamada, L. Desalvo, J.W. Medina, V. Chowdhury, R.P. Donahue, A. Polliack, and D. Catovsky	29
Cytogenetic Study of B-Cell Lymphoma of Mucosa-Associated Lymphoid Tissue A.C. Wotherspoon, L. Pan, T.C. Diss, and P.G. Isaacson	35
Chromosome Alterations Contribute to Neoplastic Progression of Transformed Rat Embryonal Fibroblasts H. Kato, J. Nishida, T. Honda, S. Miyamoto, K. Fujinaga, and N. Wake	39
Novel Translocation (2;4) with Consistent Involvement of 2p23 in Acute Nonlymphocytic Leukemia (M2) S. Farag, J. Challis, J. White, and O.M. Garson	48
Ring Chromosome in a Dermatofibrosarcoma Protuberans C.F. Stephenson, C.S. Berger, S.P.L. Leong, J.R. Davis, and A.A. Sandberg	52
Chromosomal Localization of Amplified N-MYC in Neuroblastoma Cells Using a Biotinylated Probe C. Rudduck, R.E. Lukeis, T.L. McRobert, C.W. Chow, and O.M. Garson	55
Cytogenetic Abnormalities in a Rare Case of Giant Cell Osteogenic Sarcoma H.S. Schwartz, G.A. Allen, I. Chudoba, and M.G. Butler	60
Paternal Origin of 11p15 Duplication in the Beckwith-Wiedemann Syndrome: A New Case and Review of the Literature K.W. Brown, A. Gardner, J.C. Williams, M.G. Mott, A. McDermott, and N.J. Maitland	66
Amplification of ETS2 Oncogene in Acute Nonlymphoblastic Leukemia with t(6;18;21) A. Santoro, A. Maggio, P. Carbone, S. Mirto, F. Caronia, and S. Acuto	71

Translocation (8;21) in Two Cases of Refractory Anemia with Excess of Blasts in Transformation E. Maserati, M. Casali, F. Pasquali, F. Locatelli, S. Giani, L. Prete, M. Zecca, R. Invernizzi, and R. Bassan	75
Cytogenetic Studies of Eight Primary Gastric Cancers S. Xiao, JS. Geng, XL. Feng, XQ. Liu, QZ. Liu, and A.P. Li	79
INT1 and GLI Genes Are Not Rearranged or Amplified in Benign Pleomorphic Adenomas with Chromosome Abnormalities of 12q13-15 P. Sahlin, J. Mark, and G. Stenman	85
Isochromosome (6p) in Waldenstroms Macroglobulinemia A.D. White, R.E. Clark, and A. Jacobs	89
Near-Triploid Myeloblastic Transformation of Chronic Myeloid Leukemia with Bizarre Blast Morphology Y.L. Kwong, A.Y.Y. Chan, L.C. Chan, K.F. Wong, and Y.C. Chu	92
Short Communications Ph-Positive Chronic Myeloid Leukemia with t(8;21)(q22;q22) in Blastic Crisis M.T. Ferro, J.L. Steegman, L. Escribano, B. Heiurichs, L. Parada, J.M. García-Sagredo, M. Resino, P. Cabello, and C. San Román	96
Cytogenetic Findings in Terminal Large Cell Transformation in a Case of Sézary Syndrome E. D'Alessandro, A. De Pasquale, C. Ligas, M.L. Lo Re, M. Di Cola, G. Del Porto, and D. Quaglino	100
Chromosome 11 Rearrangement at Band 11q21 in a Patient with Essential Thrombocythemia H. Nakamura, T. Hayashibara, T. Kawachi, K. Nagai, T. Matsuo, N. Sadamori, and M. Tomonaga	105
Announcement	108
Volume 58, Number 2, February 1992 Contents	
Lead Article Karyotypes in 90 Human Gliomas G. Thiel, T. Losanowa, D. Kintzel, G. Nisch, H. Martin, K. Vorpahl, and R. Witkowski	109
Original Articles t(2;14)(p13;q32): A Recurring Abnormality in Lymphocytic Leukemia: A Pediatric Oncology Group Study M.S. Watson, V.J. Land, A.J. Carroll, J. Pullen, M.J. Borowitz, M.P. Link, M. Amylon, and F.G. Behm	121
Predominance of Chromosome 5 Deletions in Myeloid Neoplasia Associated with Solid Tumors Managed by Surgical Excision A.F. List, G.J. Shamdas, I. Veomett, C. Spier, R. Morgan, and A.A. Sandberg	125
Acute Myelomonocytic Leukemia with Marrow Eosinophilia Showing 5q— and 16q22 Mosaicism K. Hamamoto, A. Yoshioka, H. Taniguchi, S. Ohaga, T. Nagano, Y. Kishimoto, H. Kitajima, M. Fujimoto, T. Kimura, H. Fujitake, K. Yasunaga, and S. Horiike	130

Double Minute Chromatin Bodies in Carcinoma of the Human Cervix Uteri C. Sreekantaiah and M. Krishna Bhargava	134
Second Report of a Translocation Involving 19q13.4 in a Mesenchymal Hamartoma of the Liver J.T. Mascarello and H.F. Krous	141
Appearance of Ph Negative Recipient Clones in Chronic Myeloid Leukemia Patients Following Bone Marrow Transplantation S.V. Williams, J. Williams, D.L. Barnard, and M.K. Mason	143
Induction of Premature Centromere Division Affecting All Chromosomes Under Culture Conditions of Fragile Site Expression C. Fuster, R. Miró, L. Barrios, and J. Egozcue	152
Cytogenetic Analysis in Children with Acute Nonlymphocytic Leukemia I. Petković, J. Konja, and M. Nakić	155
Near-Triploid Myeloblastic Transformation of Chronic Myeloid Leukemia with Bizarre Blast Morphology Y.L. Kwong, A.Y.Y. Chan, L.C. Chan, K.F. Wong, and Y.C. Chu	160
Restoration of Cytogenetically Normal Marrow Cells After Remission of Lymphoblastic Crisis in a Case of Ph Positive CML Treated with α -Interferon K. Kawakubo, J.H. Ohyashiki, K. Ohyashiki, T. Tauchi, and K. Toyama	165
Chromosomal Abnormalities in Two Chordomas Z. Gibas, M. Miettinen, and A.A. Sandberg	169
Double 20q- Anomaly in Myelodysplastic Syndrome K. Ohyashiki, T. Murakami, J.H. Ohyashiki, A. Kodama, N. Saka, H. Ito, and K. Toyama	174
Association of t(15;17) and t(8;21) in the Initial Phase of an Acute Promyelocytic Leukemia C. Charrin, D. Ritouet, L. Campos, Y. Devaux, E. Archimbaud, J. Fraisse, D. Fiere, and D. Germain	177
Deletion of Chromosome 6q in Two Cases of Acute Myeloblastic Leukemia and a Review of the Literature J. Hirata, Y. Abe, F. Taguchi, H. Takatsuki, J. Nishimura, and H. Nawata	181
Increased Mutagen Sensitivity in Human Cultured Fibroblasts with Constitutively High Micronucleus Levels B. Rümmelein, O. Drieschner, U. Ehlert, M. Weichenthal, E.W. Breitbart, and H.W. Rüdiger	186
Cytogenetic Findings in Three Primary Hepatocellular Carcinomas G. Bardi, B. Johansson, N. Pandis, S. Heim, N. Mandahl, Å. Andrén-Sandberg, I. Hägerstrand, and F. Mitelman	191
Short Communications Absence of Structural Rearrangements of Chromosome 11 in Human Primary Malignant Melanoma B. Nedoszytko, K. Mrózek, and J. Limon	196
Possibly Identical Marker Chromosome der(16)t(?13;16)(?q13or14;q22) in a Squamous Cell Carcinoma of the Skin and Larynx N.B. Atkin and M.F. Fox	198
Interstitial 9q Deletion: A Primary Change in a Case with Splenomegaly of Unknown Origin A. Ferti, H. Tsikritzi, M. Yialamboukides, T. Economopoulos, A. Panani, and	201

New Variant Translocation in Acute Myelomonocytic Leukemia with Bone Marrow Eosinophilia R. Berger and H. Dombret	204
Comment Leukemia and Preleukemia in Fanconi's Anemia B.P. Alter	206
Reply Leukemia and Preleukemia in Fanconi Anemia A.D. Auerbach	209
Letters to the Editor Translocation (8;11)(q12–13;q21) in an Embryonal Rhabdomyosarcoma G. Calabrese, P. Guanciali Franchi, L. Stuppia, C. Rossi, C. Bianchi, A. Antonucci, and G. Palka	210
Ph+ CML with 7q- and Prolonged Chronic Phase Z. Chen, R. Morgan, A.A. Sandberg, and P.P. Scheerer	212
Gastric Cancer with an i(8q) and Long Survival A.D. Panani, A. Ferti, S. Malliaros, and S. Raptis	214
Erratum	216
Announcement	217
Volume 59, Number 1, March 1992	
Contents	
Lead Article Cytogenetic Study of Five Cases of Lung Adenosquamous Carcinomas A. Flüry-Herard, E. Viégas-Pequignot, H. De Cremoux, C. Chlecq, J. Bignon, and B. Dutrillaux	1
Original Articles Trisomy 14 in Refractory Anemia with Excess Blasts in Transformation Y. Endo, H. Kawai, T. Nakahata, Y. Wakabayashi, A. Komiyama, and T. Akabane	9
Cytogenetic Analysis of 39 Pediatric Central Nervous System Tumors P.S. Karnes, T.N. Tran, M.Y. Cui, C. Raffel, F.H. Gilles, J.A. Barranger, and K.L. Ying	12
Evidence for Linear Extrachromosomal Elements Mediating Gene Amplification in the Multidrug-Resistant J774.2 Murine Cell Line E.U. Meese, S. Band Horowitz, and J.M. Trent	20
Superoxide Dismutase Activity and Superoxide Dismutase-1 Gene Methylation in Normal and Tumoral Human Breast Tissues M.S. Bianchi, N.O. Bianchi, and A.D. Bolzán	26
Cytogenetic Findings in a Malignant Fibrous Histiocytoma of the Gallbladder C. Sreekantaiah, U.N.M. Rao, C.P. Karakousis, and A.A. Sandberg	30
Acute Myelomonocytic Leukemia with inv(16)(p13q22) Complicating Philadelphia Chromosome Positive Chronic Myeloid Leukemia S. Heim, B.E. Christensen, T. Fioretos, AG. Sørensen, and N.T. Pedersen	35

Frequent Deletions in Nine Newly Immortal Human Cell Lines F.A. Ray and P.M. Kraemer	39
Cytogenetic Survey of 80 Patients with Acute Nonlymphocytic Leukemia G. Palka, G. Calabrese, G. Fioritoni, L. Stuppia, P. Guanciali Franchi, M. Marino, A. Antonucci, A. Spadano, and G. Torlontano	45
Cytogenetics of Multiple Endocrine Neoplasia Syndromes: I. Two Different, Unique Clonal Chromosome Changes in a Medullary Thyroid Carcinoma and in a C-Cell Thyroid Hyperplasia S. Scappaticci, G. Arrigoni, E. Capra, P. Maraschio, and M. Fraccaro	51
X-Chromatin, Sex Chromosomes, and Ploidy in 37 Germ Cell Tumors of the Testis N.B. Atkin and M.C. Baker	54
del(6q) as a Possible Primary Change in Malignant Mesothelioma A.M. Meloni, C.F. Stephenson, F.P. Li, and A.A. Sandberg	57
High Resolution Chromosome Banding in Search of Germ Line Mutations Applied on Testicular Cancer Patients R.A. Lothe, K. Heimdal, M.E. Lier, S.D. Fosså, P. Møller, and A. Brøgger	62
Correlation Between Cytogenetic and Molecular Analysis of t(14:18) in Follicular Lymphomas J. Benitez, M. Robledo, A. Santon, M. Santos, C. Rivas, G. Echezarreta, and P.M. Castro	68
Cytogenetic Studies of Eight Squamous Cell Carcinomas of the Head and Neck: Deletion of 7q, a Possible Primary Chromosomal Event P. Osella, A. Carlson, H. Wyandt, and A. Milunsky	73
Editorial Clonal Selection: In the Beginning a Cell was Chosen F. Hecht and B.K. Hecht	79
Short Communications Constitutional Translocation (8:13) in a Patient with Non-Hodgkin's Lymphoma MT. Salles, O. Neyra, L. Taja, G. Cervantes, M. Gagnière, M. Cerrillo, A. Mohar, A. Osornio, E. Reynoso, G. Gorodezky, and P. Sobrevilla-Calvo	80
Sister Chromatid Exchanges in Patients with Carcinoma In Situ of Cervix Uteri L. Lukovic and J. Milasin	84
del(16)(q22) in a Child with Acute Myeloid Leukemia without Bone Marrow Eosinophilia T. Kawachi, H. Nakamura, N. Sadamori, M. Tomonaga, S. Kamihira, H. Maeda, and Y. Tsuji	86
Marrow Fibrosis Associated with a Philadelphia Chromosome P.C. Nowell, J.A. Kant, J.B. Finan, P.A. Cassileth, and C.A. Hanson	89
Letters to the Editor Paracentric inv(3)(q21q26) in Acute Myeloblastic Leukemia (M2) with Normal Thrombopoiesis T.S. Sundareshan, M. Augustus, T.C. Yasha, V. Lakshmi Devi, and P.P. Bapsy	93
t(2;3)(p13;q26) in a Case of Chronic Myeloid Leukemia: Importance of the Involvement of 3q26 Y.L. Kwong, L.C. Chan, and K.W. Lie	95
Deletion of Chromosome 2(p13) is a Nonrandomly Occurring Karyotypic Abnormality in Myelodysplastic Syndrome P. Bernell, R. Hast, and K. Bröndum-Nielsen	97
Cytogenetic Studies Using Frozen Blood Samples	99

Volume 59, Number 2, April 1992

Original Articles	
Cytogenetic Comparison of Two Poorly Differentiated Human Lung Squamous Cell Carcinoma Lines E. Law, U. Gilvarry, V. Lynch, B. Gregory, G. Grant, and M. Clynes	111
Three Neuroblastoma Cell Lines Established from Consecutive Samples of One Patient Which Show Distinct Morphologic Features, MYCN Amplification, and Surface Marker Expression U.R. Kees, J. Ford, V.M. Dawson, P.R. Ranford, and J.A. Armstrong	111
Detection of MYCN Amplification in Three Neuroblastoma Cell Lines by Non-Radioactive Chromosomal In Situ Hybridization T.L. McRobert, C. Rudduck, U.R. Kees, and O.M. Garson	128
Herpes Simplex Virus and Human Papillomavirus Sites Correlate with Chromosomal Breakpoints in Human Cervical Carcinoma M. De Braekeleer, C. Sreekantaiah, and O. Haas	135
Three New Cases of Chromosome 3 Rearrangement in Bands q21 and q26 with Abnormal Thrombopoiesis Bring Further Evidence to the Existence of a 3q21q26 Syndrome M. Jotterand Bellomo, V. Parlier, D. Mühlematter, J.P. Grob, and Ph. Beris	138
Cytogenetic and Molecular Studies of the Philadelphia Translocation in Myelodysplastic Syndromes: Report of Two Cases and Review of the Literature G. Verhoef, P. Meeus, M. Stul, C. Mecucci, J.J. Cassiman, H. Van Den Berghe, and M. Boogaerts	16
Peripheral Blood Chromosome Aberrations in MDS A.D. White and A. Jacobs	16
Chromosome Fragility in Lymphocytes of Women with Cervical Uterine Lesions Produced by Human Papillomavirus C. Paz-y-Miño, L. Ocampo, R. Narváez, and L. Narváez	17
Monosomy 20 in Childhood Acute Lymphoblastic Leukemia M. Silengo, E. Vassallo, E. Barisone, R. Miniero, and E. Madon	17
Chromosome Losses in Tumorigenic Revertants of EJ/ras-Expressing Somatic Cell Hybrids C.I. Pratt, SQ. Wu, M. Bhattacharya, C. Kao, K.W. Gilchrist, and C.A. Reznikoff	18
Cytogenetic Study of Acute Lymphoblastic Leukemia and Its Correlation with Immunophenotype and Genotype HF. Tien, CH. Wang, FY, Lee, M-C. Liu, SM. Chuang, YC. Chen, MC. Shen, DT. Lin, KH. Lin, and WM. Chuu	19
Characterization of a Novel T-Cell Lymphoma Cell Line Established from a Patient with Systemic Lupus Erythematosus-Associated Lymphoma S. Miyanishi, and H. Ohno	19

Short Communications The M1 Subunit of Ribonucleotide Reductase Refines Mapping of Genetic Rearrangements at Chromosome 11p15 J.A. Byrne, M.H. Little, and P.J. Smith	206
Ovarian Cancer: Protocol for the Preparation of Banded Metaphases from Tumor Tissue S. Chattopadhyay, B. Marinduque, and F. Gilbert	210
Cytogenetic t(11;17)(q13;q21) in a Pediatric Ependymoma: Is 11q13 a Recurring Breakpoint in Ependymomas? L. Sainati, A. Montaldi, M.C. Putti, F. Giangaspero, L. Rigobello, M. Stella, L. Zanesco, and G. Basso	213
A Method to Extract DNA from Molecular Studies from Cells Fixed in Carnoy L. Barrios, R. Miró, M. Corominas, A. Pellicer, and J. Egozcue	217
Letters to the Editor t(7;22)(q31;q12) in a Uterine Leiomyoma TH. Bui and L. Iselius	219
Cytogenetic Study of a Malignant Gastric Carcinoid Tumor A.D. Panani, S. Malliaros, A. Ferti, and S. Raptis	220
Volume 60, Number 1, May 1992	
Contents	
Lead Article Chromatin Structure, DNA Methylation, and Gene Expression at Sites of Viral Integration in Human Fibroblasts: Implications for Chromosomal Fragility A. De Ambrosis, I. Casciano, F. Querzola, G. Vidali, and M. Romani	1
Original Articles Comparison of DNA and Karyotype Ploidy in Malignant Mesothelioma S. Pyrhönen, M. Tiainen, J. Rautonen, L. Tammilehto, A. Laasonen, K. Mattson, and S. Knuutila	8
A Multidrug-Resistant Ovarian Carcinoma Cell Line with a Malignant Suppressed Phenotype is a CD44 Gene Expression Defective Mutant JR. Teyssier, P. Couillin, J. Bénard, N. Ravisse, E. Ulrich, and P. Cornillet	14
X-Linked Gene MIC5 Codes for the L1 Adhesion Molecule Recognized by Monoclonal Antibody R1 K. Patel, G. Banting, G. Frost, and J.T. Kemshead	20
Aberrations of Chromosome 19: Do they Characterize a Subtype of Benign Thyroid Adenomas? G. Belge, B. Thode, J. Bullerdiek, and S. Bartnitzke	23
Trisomy 2 in Proliferative Fasciitis A. Dembinski, J.A. Bridge, J.R. Neff, C. Berger, and A.A. Sandberg	27
Heterozygote Detection Through Bleomycin-Induced G ₂ Chromatid Breakage in Dyskeratosis Congenita Families Y. Ning, Y. Yongshan, G.S. Pai, and A.J. Gross	31
Chromosome Rearrangements at 12q13 in Two Cases of Chondrosarcomas Y. Hirabayashi, M.A. Yoshida, T. Ikeuchi, T. Ishida, T. Kojima, S. Higaki, R. Machinami, and A. Tonomura	35

Translocation (6;16) in a Case of Granulosa Cell Tumor of the Ovary A. Verhest, B. Nedoszytko, J.C. Noel, J.M. Dangou, P. Simon, and J. Limon	41
Cytogenetic Changes in Hepatocarcinomas from Rats Treated with Chronic Exposure to Diethylnitrosamine C. Herens, M.L. Alvarez Gonzalez, and H. Barbason	45
Survival of Patients with t(1;7)(p11;p11): Report of Two Cases and Review of the Literature B. Pedersen	53
Uterine Stromal Sarcoma Cell Line: A Cytogenetic and Electron Microscopic Study A.E. Fresia, J.L. Currie, J.E. Farrington, R. Laxman, and C.A. Griffin	60
Chromosome Abnormalities in Low-Grade Central Nervous System Tumors C.A. Griffin, P.P. Long, B.S. Carson, and H. Brem	67
t(6;12)(q23;q13) and t(10;16)(q22;p11) in a Phyllodes Tumor of the Breast S.H. Birdsall, K.A. MacLennan, and B.A. Gusterson	74
Complex Karyotypic Aberrations, Including i(12p), in Malignant Mixed Mullerian Tumor of Uterus C. Sreekantaiah, U.N.M. Rao, and A.A. Sandberg	78
Translocation (2;9)(p12;p23) in a Case of Acute Leukemia with t(4;11)(q21;q23): Lack of Rearrangement of the Kappa and Interferon Gene Loci E. Paietta, B. Van Ness, M.M. Le Beau, J. Bennett, P. Cassileth, and P.H. Wiernik	82
Cytogenetic Damage in Peripheral Blood Lymphocytes of Cancer Patients Prior to Radiotherapy K.H. Ramesh and M.K. Bhargava	86
Editorial Chromosome Instability Before Cancer Therapy F. Hecht and B.K. Hecht	89
Short Communications New Case of t(3;17)(q26;q22) as an Additional Change in a Philadelphia-Positive Chronic Myelogenous Leukemia in Acceleration F. Mugneret, E. Solary, B. Favre, D. Caillot, I. Sidaner, and H. Guy	90
Unbalanced 6p Translocation as Primary Karyotypic Anomaly in Secondary Acute Nonlymphocytic Leukemia M. Mancini, C. Mecucci, M. Cedrone, M.B. Rondinelli, M.A. Aloe-Spiriti, and G. Alimena	93
Karyotypic and Clinical Progression in Chronic Myelogenous Leukemia After 30 Years P.C. Nowell, J.B. Finan, and A. Weiss	96
Involvement of 19q13 in Follicular Thyroid Ademnoma P. Dal Cin, W. Sneyers, M. Sayed ALy, A. Segers, F. Ostijn, B. Van Damme, and H. Van Den Berghe	99
Letters to the Editor Clonal Evolution of a Wilms' Tumor W.L. Golden, K.W. Sudduth, and M.A. Lovell	102
A Simple Method of Chromosomal Analysis for Malignant Solid Tumors R. Saura, O. Grison, L. Taine, L.P. Coadic, F. Febrer, and M. Longy	105
bcr Breakpoint Location in Spanish Patients with Chronic Myelogenous Leukemia A. Valiente, J. Benitez, and E. Prieto	108

Volume 60, Number 2, June 1992

Lead Article Skin Cancer and Chromosomal Aberrations Induced by Ultraviolet Radiation:	
Evidence for Lack of Correlation in Xeroderma Pigmentosum Variant and Group E Patients L.R. Seguin, M.B. Ganges, R.E. Tarone, and J.H. Robbins	111
Original Articles Cytogenetic Studies in Acute Nonlymphocytic Leukemia F. Solé, M.R. Caballín. M.D. Coll, S. Woessner, C. Besses, J. Sans-Sabrafen, and J. Egozcue	117
Putative Apolipoprotein Receptor Gene(LRP, A2MR) is Not Rearranged in Either Myxoid Liposarcoma or Lipomas with Translocations in 12q13–14 S. Paulien, A.A. Sandberg, J. Herz, and R.M. Gemmill	125
New Chromosomal Abnormality: t(1;19;?) in a Case of B-Chronic Lymphocytic Leukemia S. Montero, M.R. Caballín, M. Dolors Coll, Carles Besses, S. Woessner, J. Egozcue, and F. Solé	131
12q13 Abnormality in Rhabdomyosarcoma: A Nonrandom Occurrence? P. Roberts, C.F. Browne, I.J. Lewis, C.C. Bailey, R.D. Spicer, J. Williams, and G. Batcup	135
Lentigo Maligna: Cytogenetic, Ultrastructural, and Phenotypic Characterization of a Primary Cell Culture P. Grammatico, A. Modesti, K. Steindl, S. Scarpa, A. Heouaine, M. Picardo, and G. Del Porto	141
Near-Haploid Clones in a Malignant Fibrous Histiocytoma C. Örndal, N. Mandahl, B. Carlén, H. Willén, J. Wennerberg, S. Heim, and F. Mitelman	147
Telomeric Associations Evolving to Ring Chromosomes in a Recurrent Pleomorphic Xanthoastrocytoma J.R. Sawyer, E.L. Thomas, G.J. Roloson, W.M. Chadduck, and F.A. Boop	152
Cytogenetic Analysis in Ataxia Telangiectasia with Malignant Lymphoma I. Petković, I. Ligutić, M. Dominis, D. Loffler-Badžak, M. Čepulić, and M. Nakić	158
Trisomy 12 in Epstein-Barr Virus-Transformed Lymphoblastoid Cell Lines of Normal Individuals and Patients with Nonhematologic Malignancies S. Risin, V.L. Hopwood, and S. Pathak	164
Supernumerary Ring Chromosomes in Five Bone and Soft Tissue Tumors of Low or Borderline Malignancy C. Örndal, N. Mandahl, A. Rydholm, H. Willén, O. Brosjö, S. Heim, and F. Mitelman	170
Malignant Melanoma of Soft Parts: Further Cytogenetic Characterization F. Speleman, C. Colpaert, G. Goovaerts, J.G. Leroy, and E. Van Marck	176
Acute Monocytic Leukemia with (8;22)(p11;q13) Translocation: Involvement of 8p11 as in Classical t(8;16)(p11;p13) J.L. Lai, M. Zandecki, P. Fenaux, C. Preudhomme, T. Facon, and M. Deminatti	180
Enhanced Levels of Radiation-Induced G2 Phase Delay in Ataxia Telangiectasia Heterozygotes M.F. Lavin, P. Le Poidevin, and P. Bates	183

Editorial Screening for Cancer Genes	188
F. Hecht and B.K. Hecht	
Short Communications Chronic Myelomonocytic Leukemia with t(13;14) in a Child N. Bown, S.M. Yule, J. Evans, J. Kernahan, and M.M. Reid	190
A Case of Adult ALL with +i(13q) as the Sole Anomaly T.A. Walter, U. Müllerleile, I. Galinke, HJ. Weh, and D.K. Hossfeld	193
Trisomy 4 in Acute Nonlymphocytic Leukemia: Report of Two Cases and Review of the Literature E. Donti, A. Maccari, A. Tabilio, C. Ardisia, N. Campanari, and G. Venti Donti	195
Embryonal Rhabdomyosarcoma with 100 Chromosomes but No Structural Aberrations C. Olegård, N. Mandahl, S. Heim, H. Willén, B. Leifsson, and F. Mitelman	198
Trisomy 14 in Two Cases of Granulosa Cell Tumor of the Ovary G.K. Górski, L.E. McMorrow, L. Blumstein, D. Faasse, and M.H. Donaldson	202
Structural Rearrangements of Chromosome 13 as Additional Abnomalities in Burkitt Lymphoma and Type 3 Acute Lymphoblastic Leukemia C. Barin, C. Valtat, S. Briault, J.L. Bremond, A. Petit, O. Lejars, C. Linassier, P. Gaschard, and C. Moraine	206
Letters to the Editor t(16;21) in a Ph Positive CML M.R. Ferro, P. Cabello, J.M. Garcia-Sagredo, M. Resino, C. San Roman, and J.G. Larana	210
Multiple Chromosomal Abnormalities in a Case of Craniopharyngioma G.K. Górski, L.E. McMorrow, M.H. Donaldson, and M. Freed	212
Cytogenetics of Cervical Neoplasia N.C. Popescu and J.A. Dipaolo	214
i(12p) in a Near-Diploid Mature Ovarian Teratoma F. Speleman, G. Laureys, Y. Benoit, C. Cuvelier, R. Suijkerbuijk, and B. De Jong	216
t(3;6;14) (p21;p21;q24) as the Sole Clonal Chromosome Abnormality in a Hamartoma of the Lung M. Johansson, S. Heim, N. Mandahl, L. Johansson, G. Hambraeus, and F. Mitelman	219
Volume 61, Number 1, July 1, 1992	
Contents	
Lead Article Familial Occurrence of Multiple Nonmelanoma Skin Cancer D. Czarnecki, J. Zalcberg, C. Meehan, T. O'Brien, S. Leahy, A. Bankier, and C.G. Nash	1
Original Articles Multiple Chromosomal Changes and Karyotypic Evolution in a Patient with Myelofibrosis U. Trautmann, A. Rubbert, M. Gramatzki, F. Henschke, and F. Gebbart	6

A New Chromosomal Breakpoint in Ph Positive bcr Negative Chronic Myelogenous Leukemia: Report of a Case M. Negrini, A. Tallarico, I. Pazzi, A. Castagnoli, A. Cuneo, and G.L. Castoldi	11
Prognostic Impact of Karyotype and Immunologic Phenotype in 125 Adult Patients with De Novo AML C. Marosi, U. Köller, E. Koller-Weber, I. Schwarzinger, B. Schneider, U. Jäger, P. Kahls, H. Nowotny, H. Pirc-Danoewinata, G. Steger, G. Kreiner, B. Wagner, K. Lechner, D. Lutz, P. Bettelheim, and O.A. Haas	14
Cytogenetic Analysis of an Adenoid Cystic Carcinoma of the Bartholin's Gland: A Rare, Semimalignant Tumor of the Female Genitourinary Tract M. Kiechle-Schwarz, F. Kommoss, J. Schmidt, L. Lukovic, L. Walz, T. Bauknecht, and A. Pfleiderer	26
Cytogenetic Analysis of a United Kingdom Series of Non-Hodgkins Lymphomas D.W. Hammond, J.R. Goepel, M. Aitken, B.W. Hancock, A.M. Potter, and M.H. Goyns	31
Loss of Y Chromosome in Gastric Carcinoma: Fact or Artifact? S. Castedo, C. Correia, P. Gomes, R. Seruca, P. Soares, F. Carneiro, and M. Sobrinho-Simões	39
Loss of Heterozygosity of D3S2 Locus of Short Arm of Chromosome 3 in Chronic Myelogenous Leukemia K. Tanaka, A.M. Mansoor, C. Shigeta, N. Oguma, and N. Kamada	42
Impact of Polydonor Mixed Lymphocyte Culture Media on Quantity and Quality of Myeloid Metaphases N. Taylor, J.L. Welborn, and J.P. Lewis	46
Constitutional Balanced Translocations in Patients with Solid Tumors F. Richard, M. Muleris, J. Couturier, M. Gerbault-Seureau, M. Lombard, and B. Dutrillaux	50
Detection of DNA Alterations in Human Bladder Tumors by DNA Fingerprint Analyses E. Agurell, R. Li, U. Rannug, U. Norming, B. Tribukait, and C. Ramel	53
Cytogenetic Analysis of Six Renal Oncocytomas and a Chromophobe Cell Renal Carcinoma: Evidence that -Y,-1 May Be a Characteristic Anomaly in Renal Oncocytomas T.B. Crotty, K.M. Lawrence, C.A. Moertel, D.H. Bartelt, Jr., K.P. Batts, G.W. Dewald, G.M. Farrow, and R.B. Jenkins	61
Cytogenetic Analysis of the Mature Teratoma and the Choriocarcinoma Component of a Testicular Mixed Nonseminomatous Germ Cell Tumor W.E. de Graaff, J.W. Oosterhuis, B. de Jong, J. van Echten-Arends, J. Wiersema-Buist, H. Schraffordt Koops, and D.T. Sleijfer	73
Fibroblast Cultures of Patients with Basal Cell Epithelioma Exhibit a Normal Sensitivity to the Genotoxic Effect of Ultraviolet Irradiation B. Rümmelein, U. Eloo, V. Bielfeld, U. Ehlert, M. Weichenthal, E.W. Breitbart, and H.W. Rüdiger	74
Establishment and Characterization of Four Sinclair Swine Cutaneous Malignant Melanoma Cell Lines A. Green, A. Shilkaitis, L. Bratescu, M.S. Amoss, Jr., and C.W. Beattie	77
Deletion of the Long Arm of Chromosome 5 in Essential Thrombocythemia M.D. Reis, G.D. Sher, A. Lakhani, I.D. Dubé, J.S. Senn, and P.H. Pinkerton	93
Short Communications Cytogenetic Studies of an Adrenal Cortical Carcinoma J.L. Marks, H.E. Wyandt, R.M. Beazley, J.M. Milunsky, K. Sheahan,	96

Acute Monoblastic Leukemia of Infancy in Klinefelter's Syndrome A.B.M. Foot, A. Oakhill, and C. Kitchen	99
Structural Rearrangement of the Y Chromosome in a Case of Acute Myeloid Leukemia M2	101
M. Hyde, D. Reece, M. Abbs-Fehler, and D. Horsman Translocation (6;8)(q22;q12) in Ph+ Chronic Myelocytic Leukemia T. Haaf, and M. Schmid	104
Letters to the Editor	
Non-random Involvement of Chromosome 5 in ALL Z. Chen, R. Morgan, and A.A. Sandberg	106
-Y,-1 as Recurrent Anomaly in Oncocytoma A.M. Meloni, A.A. Sandberg, and R.D. White	108
Erratum	110
Volume 61, Number 2, July 15, 1992	
Contents	
Lead Article	
Cytogenetics and Molecular Genetics of Wilms' Tumor of Childhood R.M. Slater and M.M.A.M. Mannens	111
Original Articles Monosomy 21 in Two Patients with Acute Nonlymphocytic Leukemia JJ. Chang, CJ. Liu, JH. Liu, T.J. Chiou, CH. Tzeng, and PM. Chen	122
The Use of Giant Cell Tumor Conditioned Media in Cytogenetic Studies of Hematologic Malignancies D. Wason and K.E. Richkind	126
Inversion (X)(p22q13) in a Uterine Leiomyoma Y.Y. Ozisik, A.M. Meloni, U. Surti, J. Davare, and A.A. Sandberg	131
Analysis of a Giant Marker Chromosome in a Well-Differentiated Liposarcoma Using Cytogenetics and Fluorescence In Situ Hybridization C.F. Stephenson, C.S. Berger, S.P.L. Leong, J.R. Davis, and A.A. Sandberg	134
AML with Unusual Chromosomal Changes: Translocation (15;21) and 5q- in the Presence of Two Normal Chromosomes 5 J.L. Carrasco Juan, A. Otero Gòmez, J.L. Garcia Miranda, M.L. Brito Barroso, M.T. Hernández García, and L. Hernández Nieto	139
Sister Chromatid Exchange Frequency in Breast Cancer Cases S.A. Husain, S. Balasubramanian, and R. Bamezai	142
Chromosomal Abnormalities in Waldenström's Macroglobulinemia P. Carbone, F. Caradonna, G. Granata, R. Marcenò, A.M. Cavallaro, and G. Barbata	147
Graft-Versus-Leukemia Effects After Allogeneic Bone Marrow Transplantation are Active Also in the Presence of Clones with Chromosomal Anomalies in Addition to the Ph Chromosome E. Maserati, M. Casali, G. Fogu, R. Sanna, R. Invernizzi, G. Latte, P. Simi, A. Gabbas, E. Ascari, and F. Pasquali	152
Multiple Unrelated Chromosome Abnormalities in a Metastatic Mucoepidermoid Carcinoma of the Parotid Gland A. Nordkvist, S. Edström, J. Mark, and G. Stenman	158

165
174
183
193
197
201
204
207
210
213
214
216
218
1 1 1 2 2 2 2 2 2

Volume 62, Number 1, August 1992

Contents

Lead Article
Enhanced Expression of Stomach Cancer Antigen Derived from Malignantly
Transformed Bloom Syndrome Cells Previously Labeled with Bromodeoxyuridine
Y. Shiraishi, T. Ogata, and H. Soma

1

Original Articles Detection of Canine Homologs of Human MYC, BCL2, IGH, and TCRB Genes by Southern Blot Analysis S.R. Chaganti, J. Mitra, and J. LoBue	9
The Activated Human c-Ha-ras-1 Oncogene as a Mutagen H.M. Baron, I.V. Bobrisheva, and N.B. Varshaver	15
Chromosome Number Correlates with Survival in Patients with Malignant Pleural Mesothelioma M. Tiainen, J. Rautonen, S. Pyrhönen, L. Tammilehto, K. Mattson, and S. Knuutila	21
Cytogenetic Biclonality in Malignant Hematologic Disorders T. Furuya, R. Morgan, and A.A. Sandberg	25
Benign Mixed Tumor of Canine Mammary Gland Showing an r(X) and Trisomy 5 as the Only Clonal Abnormalities S. Bartnitzke, H. Motzko, C. Rosenhagen, and J. Bullerdiek	29
Direct Chromosome Analysis of Seven Primary Colorectal Carcinomas S. Xiao, W. Wei, XL. Feng, YH. Shi, QZ. Liu, and P. Li	32
Uterine Leiomyoma Cytogenetics: III. Interphase Cytogenetic Analysis of Karyotypically Normal Uterine Leiomyoma Excludes Possibility of Undetected Trisomy 12 R. Vanni, N. Van Roy, U. Lecca, and F. Speleman	40
Recurrent Chromosome Aberrations in Abdominal Smooth Muscle Tumors G. Bardi, B. Johansson, N. Pandis, S. Heim, N. Mandahl, E. Bak-Jensen, H. Frederiksen, Å. Andrén-Sandberg, and F. Mitelman	43
Deletion 12p in De Novo Acute Myeloid Leukemia: An Association with Early Progenitor Cell L.C. Chen, Y.L. Kwong, H.W. Liu, C.P. Lee, K.W. Lie, and A.Y.Y. Chan	47
Ring Chromosome in Parosteal Osteosarcoma: Clinical and Diagnostic Significance J.F. Sinovic, J.A. Bridge, and J.R. Neff	50
Sister Chromatid Exchange and Chromosome Breakage in Complete Hydatidiform Moles R.A. Becker, U. Surti, and S.L. Wenger	53
Genetics and Biology of Human Ovarian Teratomas: III. Cytogenetics and Origins of Malignant Ovarian Germ Cell Tumors L. Hoffner, S. Shen-Schwarz, R. Deka, A. Chakravarti, and U. Surti	58
Cell-Cycle Progression Rates and Sister Chromatid Exchange Frequencies in the Bone Marrow of Patients with Myelodysplastic Syndrome and Acute Myeloid Leukemia B.M. Jones, A.D. White, D.J. Culligan, and A. Jacobs	66
Trisomy of Chromosome 8 in Myelodysplastic Syndrome: Significance of the Fluctuating Trisomy 8 Population A. Iwabuchi, K. Ohyashiki, J.H. Ohyashiki, I. Sasao, T. Murakami, A. Kodama, and K. Toyama	70
Clinical Significance of the del(20q) Chromosome in Hematologic Disorders M. Aatola, E. Armstrong, L. Teerenhovi, and G.H. Borgström	75
Specific Chromosomal Aberrations Correlated to Transformation in Chinese Hamster Cells S. Simi, A. Musio, L. Vatteroni, A. Piras, and G. Rainaldi	81
Trisomy 4 in a Case of Acute Lymphocytic Leukemia (L1) K. Hodohara, Y. Fujiyama, T. Inoue, M. Niwakawa, K. Kitoh, A. Andoh, T. Bamba, S. Hosoda, and T. Abe	88

Editorial	
Editorial The New York Times: "All the News That's Fit to Print" About Medicine and Science? F. Hecht and B. Hecht	92
Short Communications Differential Expression of DNAseI-Sensitive Sites in Metaphase Chromosomes of T and B Lymphocytes J. Santos and J.J. Yunis	94
Trisomy 8 and 11 in Refractory Anemia with Excess Blasts in Transformation (RAEB-T) W.R. Ramirez, C.J. Rosenthal, S.K. Gogineni, and R.S. Verma	98
Two Karyotypically Unrelated Clones with the t(5;17) and Deletion of 5q in Myelodysplastic Syndrome A. Novak, G. Jankovic, and Z. Rolovic	100
A Case of Lipoblastoma with t(3;8)(q12;q11.2) Y. Ohjimi, H. Iwasaki, Y. Kaneko, M. Ishiguro, A. Ohgami, and M. Kikuchi	103
Letters to the Editor Mitotic Spindle Failure in Human Cancer N.B. Atkin and M.C. Baker	106
Complex Karyotype Including Trisomy 8 in a Case of B-Chronic Lymphocytic Leukemia J.C. Cigudosa, M.J. Calasanz, A. Gullon, and M.T. Ardanaz	108
Announcement	110
Volume 62, Number 2, September 1992 Contents	
Lead Article Characterization of Four Melanoma Cell Lines with Electron Microscopy, Immunocytochemistry, Cytogenetics, Flow Cytometry, and Southern Analysis I. Köpf, U. Stierner, Q. Islam, U. Delle, LG. Kindblom, and T. Martinsson Original Articles Karyotype Evolution in a Patient with Biphenotypic Neonatal Leukemia G. Fugazza, G. Basso, M. Sessarego, R. Haupt, A. Comelli, S. Roncella, D. Negri,	111
and R. Sansone Cytogenetic and FISH Studies of Abnormal X Chromosomes in a Patient with ANLL Z. Chen, C.S. Berger, R. Morgan, D. Roth, J.F. Stone and A.A. Sandberg	130
Temporal Association of Marrow Eosinophilia with Inversion of Chromosome 16 in Recurrent Blast Crises of Chronic Myelogenous Leukemia J.P. Evers, A. Bagg, E. Himoe, J.A. Zwiebel, and R.J. Jacobson	134
Detection of an i(17q) Chromosome by Fluorescent in situ Hybridization with a Chromosome 17 Alpha Satellite DNA Probe	
H. Nakagawa, J. Inazawa, S. Misawa, S. Tanaka, T. Takashima, M. Taniwaki, T. Abe, and K. Kashima	140

Microprocedure for In Situ Nick Translation of Chromosomes L. Zhengang, H.L. Hosick, and K. Fan	150
Cytogenetic Analysis of Hematologic Malignancies in Hong Kong: A Study of 98 Cases L.C. Chan, Y.K. Kwong, H.W. Liu, T.K. Chan, D. Todd, and L.M. Ching	154
Longitudinal Cytogenetic Study of Metaphase and Interphase Cells in Childhood Monosomy 7 Syndrome W.S. Stanley, G.C. Devine, B.A. Murphy, N. Seibel, and P. Dinndorf	160
Isolation of a Yeast Artificial Chromosome Clone That Spans the (12;16) Translocation Breakpoint Characteristic of Myxoid Liposarcoma R.M. Gemmill, M.J. Mendez, C.M. Dougherty, S. Paulien, M. Liao, D. Mitchell, S.A. Jankowski, J.M. Trent, C. Berger, A.A. Sandberg, and P.S. Meltzer	166
Interphase Cytogenetics on Paraffin Sections of Malignant Pleural Mesothelioma: A Comparison to Conventional Karyotyping and Flow Cytometric Studies M. Tiainen, A. Hopman, O. Moesker, F. Ramaekers, M. Wessman, A. Laasonen, S. Pyrhönen, L. Tammilehto, K. Mattson, and S. Knuutila	171
Analysis of Prostatic Tumor Cultures Using Fluorescence In-Situ Hybridization (FISH) A.R. Brothman, A.M. Patel, D.M. Peehl, and P.F. Schellhammer	180
Complex Chromosomal Rearrangements in an Unusual Variant of Hairy Cell Leukemia E. Nacheva, P. Fischer, S. O'Connor, D. Bloxham, C. Hoggarth, and R. Marcus	186
t(13q;17p) and del(5q): Possibly Specific Changes in Chinese Patients with Colorectal Cancers L. Wang, L. Li, H.Y. Zhou, X.K. Gao, and Shi J. Li	191
Short Communications Acute Lymphoblastic Leukemia of Burkitt Type (L3) with a (14;18) and an Atypical (8;22) Translocation S.R. Smith, N. Bown, and J.P. Wallis	197
Cytogenetic Analysis of a Uterine Lipoleiomyoma J. Hu, U. Surti, and H. Tobon	200
Translocation (5;22) in an Askin's Tumor H. Christiansen, M. Altmannsberger, and F. Lampert	203
Letters to the Editor Trisomy 13 in a Case of Acute Promyelocytic Leukemia C. Valtat, F. Uettwiller, N. Nadal, and F. Oberling	206
Cytogenetic Study of B-Cell Lymphoma of Mucosa-Associated Lymphoid Tissue M. Robledo, J. Benitez, C. Biyos, and P. Martinez-Castro	208

Volume 63, Number 1, October 1, 1992

Contents

Lead Article

Genetics and Cytogenetics of Retinoblastoma B. Horsthemke

Original Articles Verification of Isochromosome 12p and Identification of Other Chromosome 12 Aberrations in Gonadal and Extragonadal Human Germ Cell Tumors by Bicolor Double Fluorescence in Situ Hybridization R.F. Suijkerbuijk, L. Looijenga, B. de Jong, J.W. Oosterhuis, J.J. Cassiman, and A. Geurts van Kessel	8
Cytogenetics of Multiple Endocrine Neoplasia Syndrome: II. Chromosome Abnormalities in an Insulinoma and a Glucagonoma from Two Subjects With MEN1 S. Scappaticci, M.L. Brandi, E. Capra, M. Cortinovis, P. Maraschio, and M. Fraccaro	17
Trisomy 7 in Nonneoplastic Focal Steatosis of the Liver G. Bardi, B. Johansson, N. Pandis, S. Heim, N. Mandahl, I. Hägerstrand, T. Holmin, Å. Andrén-Sandberg, and F. Mitelman	22
Cytogenetic and Molecular Studies of a Familial Renal Cell Carcinoma HJ.H. Decker, B. Wullich, J.M. Whaley, G. Herrera, S.M. Klauck, A.A. Sandberg, D.W. Yandell, and B.R. Seizinger	25
Cytogenetic and Fluorescence In Situ Hybridization Analysis of Breast Fibroadenomas C.F. Stephenson, R.I. Davis, G.E. Moore, and A.A. Sandberg	32
t(9;11)(p22;q23) Translocation in Blastic Phase of Chronic Myeloid Leukemia N. Dastugue, E. Duchayne, F. Huguet, C. Demur, H. Plaisancie, P. Calvas, G. Bourrouillou, J. Pris, and P. Colombies	37
Endometrial Stromal Sarcoma t(7;17)(p15-21;q12-21) is a Nonrandom Chromosome Change P. Dal Cin, M. Sayed Aly, I. De Wever, P. Moerman, and H. Van Den Berghe	43
Cytogenetic Findings in a Breast Stromal Sarcoma: Application of Fluorescence In Situ Hybridization to Characterize the Breakpoint Regions in an 11;19 Translocation I.E. Garcia-Palazzo, J.P. Palazzo, Z.M. Liu, T. Taguchi, and Joseph R. Testa	47
Complex Translocation Involving Ph Chromosome in a Patient with Typical Chronic Myelogenous Leukemia C. Calabrese, G. Palka, C.A. Westbrook, and D. Sheer	52
Minireview: Cytogenetic Features of Neonatal Leukemias R. Sansone and D. Negri	56
Application of Fluorescence In Situ Hybridization in Hematological Disorders Z. Chen, R. Morgan, C.S. Berger, and A.A. Sandberg	62
Short Communications Pentasomy 21 in Leukemia Complicating Diamond-Blackfan Anemia P.G. Mori, R. Haupt, G. Fugazza, M. Sessarego, A. Corcione, P. Strigini, and R. Sansone	70
Cytogenetics of a Case of Cardiac Myxoma T. Dijkhuizen, E. van den Berg, W.M. Molenaar, J.J. Meuzelaar, and B. de Jong	73
Letters to the Editor t(6;9)(p22;q34) Associated with Acute Myeloblastic Leukemia (M1) A. Plaja, J.M. Pueyo, X. Labrañ, D. Garcia, RA. de la Chica, F. Solé and S. Woessner	76
Meningeal Hemangiopericytoma or Hemangiopericytic Meningioma?: A Cytogenetic and Molecular Analysis M.J. Bello, J.A. Rey, A. Pestana, J.M. De Campos, J.L. Sarasa, M.E. Kusak, and J. Vaquero	78

Volume 63, Number 2, October 15, 1992

Contents

Lead Article Transcriptionally Active Chimeric Gene Derived From the Fusion of the AML1 Gene and a Novel Gene on Chromosome 8 in t(8;21) Leukemic Cells P.E. Nisson, P.C. Watkins, and N. Sacchi	81
Original Articles del(5q) in Acute Lymphoblastic Leukemia with Biphenotypic and Early Progenitor Phenotype C. Theodossiou, A. Scalise, K. Troy, L. Silverman, E. Perdahl-Wallace, and V. Najfeld	89
Pseudodiploid Karyotypes in Adenosquamous Carcinomas of the Lung M. Johansson, Y. Jin, S. Heim, N. Mandahl, G. Hambraeus, L. Johansson, and F. Mitelman	95
Short Communication Abnormalities of Chromosome 18 in Myelodysplastic Syndromes and Secondary Leukemia R. Berger, M. Le Coniat, J. Derre, MA. Flexor, and J. Hillion	97
Letters to the Editor Translocation (X;1)(p11.2;q21): A Subtype of Renal Adenocarcinomas A.M. Meloni, A.A. Sandberg, J.E. Pontes, and R.M. Dobbs, Jr.	100
Abstracts Third European Workshop on Cytogenetics and Molecular Genetics of Human Solid Tumors S. Castedo, Conference Organizer	102

Volume 64, Number 1, November 1992

Lead Article Genetics and Cytogenetics of Retinoblastoma J.K. Cowell and A. Hogg	
Original Articles Cytogenetic Studies in 112 Cases of Untreated Myelodysplastic Syndromes F. Solé, F. Prieto, L. Badia, S. Woessner, L. Florensa, M.R. Caballin, M.D. Coll, C. Besses, and J. Sans-Sabrafen	1
Chromosome 12 in Human Testicular Cancer: Dosage Changes and their Parental Origin P. Peltomäki, R.A. Lothe, AL. Børresen, S.D. Fosså, A. Brøgger, and A. de la Chapelle	2
Translocation (12;17)(p11-12;q11-12): A Recurrent Primary Rearrangement in Acute Leukemia H.W. Liu, S.K. Wan, L.M. Ching, R. Liang, and L.C. Chan	2

Clonal Chromosome Changes in Renal Carcinoma do not Correlate with Clinical Stages and Histopathologic Grades P. Granata, P. Portentoso, E. Minelli, R. Righi, E. Meroni, A.V. Bono, E. Pozzi, M. Salvadore, P. Simi, and R. Casalone	30
Variant Complex Translocation t(8;15;21) in Acute Myeloblastic Leukemia (M2) Associated with Bilateral Chloroma T.S. Sundareshan, M. Augustus, T.C. Yasha, S.N. Shailaja, and N. Lalitha	35
A t(2;3)(q12-13;p24-25) in Follicular Thyroid Adenomas G. Sozzi, M. Miozzo, T.C. Cariani, I. Bongarzone, S. Pilotti, M.A. Pierotti, and G. Della Porta	38
Cellular Proliferation and Genetic Events Involved in the Genesis of Burkitt Lymphoma (BL) in Immune Compromised Patients L.B. Ellwein and D.T. Purtilo	42
Prognostic Significance of Karyotype in a Twelve-Year Follow-up in Childhood Acute Lymphoblastic Leukemia N. Dastugue, A. Robert, C. Payen, D. Clement, A. Kessous C. Demur, H. Rubie, H. Plaisancie, G. Bourrouillou, and P. Colombies	49
Chromosome 21 Rearrangement in Acute Biphenotypic Leukemia C. Theodossiou, A. Scalise, L. Silverman, and V. Najfeld	56
A New Nonrandom Chromosomal Abnormality, t(2;16)(p11.2;p11.2), Possibly Associated with Poor Outcome in Childhood Acute Lymphoblastic Leukemia L.R. Lowe, N.A. Heerema, A.C. Cheerva, and C.G. Palmer	60
Abnormalities of Chromosome 22 in Meningiomas and Confirmation of the Origin of a Dicentric 22 by In Situ Hybridization V. Tonk, P. Osella, A. Delasmorenas, H.E. Wyandt, and A. Milunsky	65
DNA Sequence Analysis of Mutations Induced by Melphalan in the CHO aprt Locus M.J. Finley Austin, YH. Han, and L.F. Povirk	69
Cytogenetic Findings in a Case of Pediatric Glioblastoma J.R. Sawyer, C.M. Swanson, G.J. Roloson, D.C. Longee, and W.M. Chadduck	75
Acute Leukemia with t(1;3)(p36;q21), Evolution to t(1;3)(p36;q21),t(14;17)(q32;q21), and Loss of Red Cell A and Le ^b Antigens K.A. Marsden, A.M. Pearse, G.G. Collins, D.S. Ford, S. Heard, and R.I. Kimber	80
Establishment and Characteristics of a T-Cell Acute Lymphoblastic Leukemia Cell Line, JK-T1, with a Chromosomal Translocation Between 8q24 and 14q13 M. Urashima, H. Iyori, K. Fujisawa, Y. Hoshi, JI. Akatsuka, and K. Maekawa	86
Short Communications Myelodysplastic Syndrome and Trisomy 14q P. Tumewu and Gordon Royle	91
Concomitant Presence of Trisomy 21 and del(9q) in Acute Myeloid Leukemia Y.L. Kwong and L.C. Chan	93
Cytogenetics of Sacral Chordoma J.M. DeBoer, James R. Neff, and J.A. Bridge	95
Isochromosome 14q and Leukemia with Dysplastic Features H.W. Liu, K.W. Lie, and L.C. Chan	97
Letter to the Editor Trisomy 7 in Nonneoplastic Kidney Tissue Cultured With and Without Epidermal Growth Factor P. Elfving, R. Lundgren, I.C.C. Cigudosa, S. Heim, N. Mandahl, and F. Mitelman	99

Volume 64, Number 2, December 1992

Original Articles Translocation t(12;22)(q13;q13) is a Nonrandom Rearrangement in Clear Cell Sarcoma B.R. Reeves, C.D.M. Fletcher, and B.A. Gusterson	101
Significance of Both Numerical and Structural Chromosomal Abnormalities in Clear Cell Sarcoma J.A. Bridge	104
t(12;22)(q13;q13) and Trisomy 8 Are Nonrandom Aberrations in Clear-Cell Sarcoma E. Rodriguez, C. Sreekantaiah, V.E. Reuter, R.J. Motzer, and R.S.K. Chaganti	107
Chromosome Abnormalities in Liposarcomas Y. Ohjimi, H. Iwasaki, Y. Kaneko, M. Ishiguro, A. Ohgami, C. Fujita, N. Shinohara, K. Yoshitake, and M. Kikuchi	111
Preferential Chromosome 11q and/or 17q Aberrations in Short-term Cultures of Metastatic Melanoma in Resections from Human Brain H.G. Morse, R. Gonzalez, G.E. Moore, and W.A. Robinson	118
Cytogenetic Study of a Pineocytoma C.A. Rainho, S.R. Rogatto, L. Correa de Moraes, and J. Barbieri-Neto	127
Chromosomal Sensitivity of Human Lymphocytes to Bleomycin: Influence of Antioxidant Enzyme Activities in Whole Blood and Different Blood Fractions A.D. Bolzán, N.O. Bianchi, M.L. Larramendy, and M.S. Bianchi	133
Cytogenetic Abnormalities in a Squamous Cell Carcinoma of the Penis S. Xiao, XL. Feng, YH. Shi, QZ. Liu, and P. Li	139
Deletion (7)(p11p15) in a Patient with Philadelphia-Positive Chronic Myelogenous Leukemia J.L. Carrasco Juan, A.O. Gomez, J.L. Garcia Miranda, M. Trujillo Gonzalez, M. Herrera Fernandez, and T. Bello Hernandez	142
Fluorescence In Situ Hybridization to Determine Engraftment Status After Murine Bone Marrow Transplant A.L. Hawkins, R.J. Jones, B.A. Zehnbauer, M.S. Zicha, M.J. Collector, S.J. Sharkis, and C.A. Griffin	145
Chromosome Abnormalities and Oncogenesis in Cat Leukemias S.E. Gulino	149
Specific Chromosomal Defects Associated with Ultraviolet Radiation-Induced Cutaneous Tumors in Monodelphis domestica (Marsupialia, Mammalia) S. Pathak, M. Gadhia, M.K. Dhaliwal, L.A. Applegate, and R.D. Ley	158
Supernumerary Ring Marker Chromosome as a Secondary Rearrangement in a Parapharyngeal Lipoma with t(10;12)(q25;q15) as the Primary Karyotypic Abnormality K. Higashi, N. Sarashina, T. Okamoto, C. Matsuki, and S. Heim	163
A Lineage-Specific t(1;14)(q21;q32) as an Early Event in Development of B-Cell Clonal Expansion P.H. Pinkerton, M.D. Reis, J. DeCoteau, J.R. Srigley, I.D. Dubé, and B. London	166
Karyotypic Analysis of Gastric Carcinoma Cell Lines Carrying an Amplified c-met Oncogene G. Rege-Cambrin, P. Scaravaglio, F. Carozzi, S. Giordano, C. Ponzetto, P.M. Comoglio, and G. Saglio	170
Disappearance of a Highly Unusual Clone, 46,XY,del(7)(p12),t(9;22)(q34;q11), in Chronic Myeloid Leukemia After Treatment with Recombinant Interferon and Cytosine Arabinoside F. Christodovlidov, R.T. Silver, M.I. Macera, and R.S. Verma	174

A TP53 Mutation Detected in Cells Established From an Osteosarcoma, but Not in the Retinoblastoma of a Patient with Bilateral Retinoblastoma and Multiple Primary Osteosarcomas E. Hovig, Å. Andreassen, B.M. Fangan, and A.L. Børresen	178
Short Communications Translocations (17;20) in Colorectal Adenocarcinomas E.W. Fleischman, L.N. Konstantinova, A.G. Perevozchikov, and V.I. Knisch	183
Confirmation of Centromeric Fusion in 7p/1q Translocation Associated with Myelodysplastic Syndrome J.J. Hoo, K. Szego, and B. Jones	186
Letters to the Editor Cytogenetic Abnormalities in an Intraabdominal Desmoplastic Small Cell Tumor W.P. Violet Shen, B. Towne, and T.M. Zadeh	189
X-Linked Polymorphism of Hypoxanthine Phosphoribosyl Transferase Gene (HPRT) in Chinese Females L.C. Chan, E. Tse, S. Pittaluga	192
Author Index	193
Subject Index	199
Volume Contents	219